ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention ADAPTIVE DE-BLOCKING FILTERING APPARATUS AND METHOD FOR MPEG VIDEO DECODER

Application Number:

Confirmation Number:

First Named Applicant:

Do-Kyoung Kwon

Attorney Docket Number:

MTKP0167USA

Art Unit:

Examiner:

Search string:

(6600839 or 6563958 or 6370279 or 6298161 or 6618510 or 6539060 or 6360024

or 6320905 or 6317522 or 6240135 or 6188799 or 6115503 or 6028967 or 5933541

or 20030219074 or 20030053708 or 20030044080 or 20020196856 or

20020118399 or 20020051496 or 20030219073 or 20030152146 or 20030202608

or 20030058944 or 20030053711).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
/TV/	1	6600839	2003-07-29	Mancuso ,et al.			
/TV/	2	6563958	2003-05-13	Andrew			
/TV/	3	6370279	2002-04-09	Paik			
/TV/	4	6298161	2001-10-02	Koo , et al.			
TV/	5	6618510	2003-09-09	Umiji			
/TV/	6	6539060	2003-03-25	Lee , et al.			
/TV/	7	6360024	2002-03-19	Tan , et al.			
/TV/	8	6320905	2001-11-20	Konstantinides			
/TV/	9	6317522	2001-11-13	Rackett			
/TV/	10	6240135	2001-05-29	Kim			
/TV/	11	6188799	2001-02-13	Tan ,et al.			
/TV/	12	6115503	2000-09-05	Kaup			
/TV/	13	6028967	2000-02-22	Kim , et al.			
/TV/	14	5933541	1999-08-03	Kutka ,et al.			

US Published Applications

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	1	20030219074	2003-11-27	Park,		1	
l/TV/	'	20000210074	2000 11 27	Jeong-hoon ;et			
		i		al.			
	2	20030053708	2003-03-20	Kryukov, Sergei			
/TV/				Nikolaevich; et			
<u> </u>				al.			
/TV/	3	20030044080	2003-03-06	Frishman, Eyal;			i
/ 1 V/		100000100050	0000 40 00	et al.			
/TV/	4	20020196856	2002-12-26	Miro Sorolla,			
ļ		00000110000	0000 00 00	Carolina ; et al.			
lτv/	5	20020118399	2002-08-29	Estevez, Miguel ; et al.			
	6	20020051496	2002-05-02	Hashimoto,	· · · · · · · · · · · · · · · · · · ·		
TV/	0	20020031490	2002-05-02	Kohkichi			
\vdash	7	20030219073	2003-11-27	Lee, Yung-lyul;			
<i>I</i> IT∨/	'	20000213070	2000 11 27	et al.			
	8	20030152146	2003-08-14	Lin, Chih-Lung;			
TV/				et al.			
	9	20030202608	2003-10-30	MacInnis,			
hrv/				Alexander G.; et		1	
1 ''				al.	1		
	10	20030058944	2003-03-27	MacInnis,			
TV/				Alexander G.; et			
				al.			
/TV/	11	20030053711	2003-03-20	Kim, Changick			

Signature

Examiner Name	Date
/Tung Vo/	08/31/2007

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PTO/SB/21 (08-03)
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TRA	NSMITTAL	Filing Da	ate	04/29/2004				
	FORM		med Inventor	Do-Kyoung Kwon				
(to be used for all co	orrespondence after initial fili	na) Art Unit						
(10 00 000 101 01			er Name					
Total Number of Pag	es in This Submission 8	2 Attorney	Docket Number	MTKP0167USA				
·		ENCLOSURI	S (Check all tha	nt apply)				
Amendment/F After F Affidat Extension of T	ttached Reply Final vits/declaration(s) Fime Request adonment Request isclosure Statement	Petition Petition to Provisiona Power of A Change of Terminal E Request fo	related Papers Convert to a Application Attorney, Revocation Correspondence Addi	to Ar Of Ar	Technologipeal Cor Appeals Cor Appeal Cor Appeal Not Appeal Not Ap	osure(s) (please		
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sufficient postage as the date shown below	nis correspondence is bei first class mail in an enve	ng facsimile transi	mitted to the USPTO o	r deposited with the	United S 50, Alexa	States Postal Service with Indria, VA 22313-1450 on		
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Winston Hsu

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(Complete (if applicable))

Telephone 886289237350

FFF TDANG	CRAITTAI	Complete if Known				
FEE TRANS	DIVILLIAL	Application Number	10/709,338			
for FY	2004	Filing Date	04/29/2004			
Effective 10101/2003. Patent fees are		First Named Inventor	Do-Kyoung Kwon			
		Examiner Name				
Applicant claims small entity status	. See 37 CFK 1.27	Art Unit				
TOTAL AMOUNT OF PAYMENT	(\$) 0.00	Attorney Docket No.	MTKP0167USA			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)	
Check Credit card Money Other None	3. ADDITIONAL FEES	
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Deposit Castani.	Fee Fee Fee Fee Fee Description Fee Description	on Dold
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Number Deposit Account North America Intellectual Property Corp.	1052 50 2052 25 Surcharge - late provisional filing fee or	
Account Name Name	cover sheet	
The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification 1812 2,520 1812 2,520 For filing a request for ex parte reexamination	$\neg \neg$
Charge fee(s) Indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination 1804 920* 1804 920* Requesting publication of SIR prior to	
Charge any additional fee(s) or any underpayment of fee(s)	Examiner action	
Charge fee(s) indicated below, except for the filing fee	1805 1,840° 1805 1,840° Requesting publication of SIR after	i
to the above-identified deposit account.	Examiner action 1251 110 2251 55 Extension for reply within first month	
FEE CALCULATION	1252 420 2252 210 Extension for reply within second month	
1. BASIC FILING FEE	1253 950 2253 475 Extension for reply within third month	
Large Entity Small Entity Fee Fee Fee Fee Pald Fee Pald		
Code (\$)	1255 2,010 2255 1,005 Extension for reply within fifth month	
1001 770 2001 385 Utility filing fee	1401 330 2401 165 Notice of Appeal	
1002 340 2002 170 Design filing fee	1402 330 2402 165 Filing a brief in support of an appeal	
1003 530 2003 265 Plant filing fee	1403 290 2403 145 Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding	
	1 1452 110 2452 55 Petition to revive - unavoidable	
SUBTOTAL (1) (\$) 0.00	1453 1.330 2453 665 Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	E 1501 1,330 2501 665 Utility issue fee (or reissue)	
Fee from Ext <u>ra Claims below</u> Fee Pald		
Total Claims X =	1503 640 2503 320 Plant Issue fee	
Independent	1480 130 1460 130 Petitions to the Commissioner	
Multiple Dependent	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	1806 180 1806 180 Submission of Information Disclosure Stmt	
Fee Fee Fee Fee Gescription Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20	1809 770 2809 385 Filing a submission after final rejection	
1201 86 2201 43 Independent claims in excess of 3	(37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims	1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))	
over original patent	1801 770 2801 385 Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 0.00	Other fee (specify)	
**or number previously paid, if greater, For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00	

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Registration No.

(Attomey/Agent)

41,526

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Substituta f	or form 1449B/PT	n		Complete if Known				
				Application Number	10/709,338			
INFOR	RMATION	N DIS	CLOSURE	Filing Date	04/29/2004			
STAT	EMENT F	RY A	PPLICANT	First Named Inventor	Do-Kyoung Kwon			
JIAI	F-141 F 14 1 F	-		Group Art Unit				
	(use as many s	sheets a	s necessary)	Examiner Name				
Sheet	1	of	1	Attorney Docket Number	MTKP0167USA			

	_	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	,
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
/TV/	1	R.ROSENHOLTZ, A. ZAKHOR; Iterative procedures for reduction of blocking effects in transform image coding; IEEE TRANS. Circuits Syst. Video Technol; Mar. 1992; page 91 - page 95;VOL. 2	
/TV/	2	Y. YANG, N. P. GALATSANOS, A.K.KATSAGGELOS; Regularized reconstruction to reduce blocking artifact of block discrete cosine transform compressed image; IEEE Trans. Circuits Syst. Video Technol.;Dec 1993; page 421- page 432; VOL. 3	
/TV/	3	Y. YANG, N. P. GALATSANOS, A.K.KATSAGGELOS; Projection-based spatially adaptive reconstruction of block-transform compressed images; IEEE Trans. Image Processing; July 1995; page 896-page 908; VQL. 4	
/TV/	4	T.MEIER, K.N.NGAN, G. GREBBIN; Reduction of blocking artifacts in image and video coding; IEEE Trans. Circuits Syst. Video Technol; April 1999; page 490 - page 500; VOL.9	
/TV/	5	T.P. O'ROURKE, R.L. STEVENSON; Improved image decompression for reduced transform coding artifacts; IEEE TRANS. Circuits Syst. Video Technol.; Dec. 1995; page 490- page499; VOL.5	
/TV/	6	Y.L. LEE, H.C. KIM, H.W.PARK; Blocking effect reduction of JPEG images by signal adaptive filtering; IEEE Trans. Image Processing; Feb. 1998; page 229-page 234; VOL.7	
/TV/	7	H.W. PARK, Y.L.LEE; A postprocessing method for reducing quantization effect in low bit-rate moving picture coding; IEEE Trans. Circuits Syst. Video Technol; Feb.1999; page 161-page 171; VOL.9	-
/TV/	8	S.D.KIM, J. YI, H.M.KIM, J.B.RA; A deblocking filter with two separate modes in block-based video coding; IEEE Trans. Circuits Syst. Video Technol; Feb.1999; page 156-apge 160; VOL.9	
/TV/	9	P.LIST, A.JOCH, J.LAINEMA, G.BJONTEGAARD, M.KARCZEWICZ; Adaptive deblocking filter; IEEE Trans. Circuits Syst. Video Technol; July 2003; page 614-page 619; VOL.13	
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Examiner	/Tung Vo/	Date	08/31/2007
Signature	, , a., g , c.	Considered	00/31/2007

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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	Application Number	10709338		
INICODIA TION DIOCI COLLEG	Filing Date	2004-04-29		
INFORMATION DISCLOSURE	First Named Inventor Do-Kyoung Kwon			
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit	2621		
(Not for Submission under 67 of R 1.66)	Examiner Name	TOURI, MEHRBAD Vo, Tung		
	Attorney Docket Number	MTKP0167USA		

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Examiner Initials*	Cite No	(book, magazine, journ	ıal, seria	al, sympo	osium, d	catalog, etc), d			Examiner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item								

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10709338		
Filing Date		2004-04-29		
First Named Inventor	Do-Kyoung Kwon			
Art Unit		2621		
Examiner Name BASTOURI; MEHRBAD Vo, Tung				
Attorney Docket Number		MTKP0167USA		

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If you wish to add additional non-patent literature document citation information please click the Add button Add							
EXAMINER SIGNATURE							
Examiner Signature		re /Tung Vo/ Date Considered		08/31/2007			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
¹ See Kind Codes of USPTO Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 If possible. ⁵ Applicant is to place a check mark here i English language translation is attached.							

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10709338		
Filing Date		2004-04-29		
First Named Inventor	Do-Kyoung Kwon			
Art Unit		2621		
Examiner Name DASTOURI, MEHRDAD Vo, Tung				
Attorney Docket Number		MTKP0167USA		

CERTIFICATION STATEMENT								
Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):								
	That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).							
OF	₹							
That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).								
X	None							
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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.								
Signature		/WINSTON HSU/	Date (YYYY-MM-DD)	2007-05-02				
Name/Print		WINSTON HSU	Registration Number	41526				
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